

Notice No. 1

Code for Lifting Appliances in a Marine Environment, November 2015

The status of this Rule set is amended as shown and is now to be read in conjunction with this and prior Notices. Any corrigenda included in the Notice are effective immediately.

Issue date: December 2015

Amendments to	Effective date
General Regulations, Section 4	1 January 2016
Chapter 1, Section 1	Corrigenda
Chapter 4, Section 2	Corrigenda
Chapter 8, Section 5	Corrigendum
Chapter 12, Sections 1 & 3	Corrigenda
Chapter 13, Section 2	Corrigenda

General Regulations

Effective date 1 January 2016

■ Section 4 Naval Ship Technical Committee

4.6 The function of the Naval Ship Technical Committee is to consider technical issues connected with Naval Ship matters and to approve proposals for new Naval Ship Rules, or amendments to existing Naval Ship Rules. Where appropriate, Naval Ship Technical Committee may also recognise alternative LR Rule requirements that have been approved by the other Lloyd's Register Technical Committee as adjunct to the Naval Ship Rules.

Chapter 1

General

Corrigenda

■ Section 1 Introduction

1.6 Materials and fabrication

1.6.1 Materials intended for the construction of lifting appliances are to be in accordance with one of the following:

- (c) A recognised National or International Standard that includes materials which are equivalent to those specified in the Rules for Materials, but where the approval and survey requirements will not comply with the requirements of Chapter 1 and Section 1 of subsequent Chapters, of the Rules for Materials as appropriate. In this case, materials ~~will~~ may be subject to additional testing under LR survey prior to acceptance for any project at the discretion of the Surveyor. This is not permitted for lifting appliances subject to Classification.

Chapter 4

Cranes and Submersible Lifting Appliances

Corrigenda

■ Section 2 Shipboard cranes

2.26 Rope safety factors and sheave ratio

2.26.1 The rope safety factor for both running and standing application for cranes with SWL greater than 10 t and less than 160 t is given by:

$$SF = \frac{10^4}{8,85SWL + 1910}$$

where

SF = minimum safety factor required

SWL = safe working load of crane, in tonnes

For cranes with $SWL < 10$ t, $SF = 5,0$
and $SWL > 160$ t, $SF = 3,0$.

Chapter 4

This is represented graphically in Fig. 4.2.13.

The rope safety factor SF maybe reduced for Cases 3 and 4 (see 2.15.1 and Table 4.2.6) by a factor of $\frac{0,67}{0,85}$

The safety factor SF for both the luffing and hoisting system is to be determined using the maximum SWL for each reeving arrangement.

2.9 Transverse forces due to travel motions

2.9.2 The value of the racking force, F_R , is calculated from the following formulae:

$$F_R = C_2 F_{VW}$$

where

F_{VW} = vertical load on wheel or bogie, in Newtons

C_2 = coefficient dependent on wheel track, t , and base, B , as follows:

- (a) $C_2 = 0,05$ for values $t/b \leq 2,0$
- (b) $C_2 = 0,025 t/b$ for values $2,0 < t/b \leq 8,0$
- (c) $C_2 = 0,20$ for values $t/b > 8,0$

Fig.4.2.3 gives the equilibrium of forces applied to the crane. Alternative calculation methods as detailed in recognised National or International Standards (e.g. F.E.M. 1.001, Booklet 9) may be considered

Chapter 8

Fittings, Loose Gear and Ropes

Corrigendum

■ Section 5 Loose gear

5.2 Hooks

Table 8.5.7 Values of k for hooks

M/H	θ							
	40°	30°	25°	20°	15°	10°	5°	0°
0,55	0,48	0,75	0,85	0,92	0,98	1,03	1,06	1,10
0,65	0,82	1,01	1,08	1,12	1,16	1,20	1,23	1,27
0,75	1,07	1,18	1,22	1,27	1,30	1,34	1,37	1,40
0,85	1,16	1,30	1,33	1,36	1,40			

Chapter 12

Testing, Marking and Surveys

Corrigenda

■ Section 1 Testing

1.9 Lifts and ramps

(Part only shown)

1.9.3 In addition, after installation and or following any major repair, renewal or alteration, each lift is to be subjected to the following tests:

Chapter 12

■ Section 3 Survey requirements

3.7 Classification surveys

3.7.2 It is the responsibility of the Owner to ensure that all thorough examinations necessary for the maintenance of class are carried out at the proper time and in accordance with the instructions of the Classification Committee. LR ~~will give timely notice to an Owner~~ make available to an Owner timely notice about forthcoming periodical thorough examinations by means of a ~~letter or quarterly computer print-out~~ *Quarterly Listing of Surveys* by means of computer access via Class Direct website. The omission of this notice, however, does not absolve the Owner from his responsibility to comply with LR's requirements for the maintenance of class.

Chapter 13

Documentation

Corrigenda

■ Section 2 Certification procedure

2.6 Certification procedure

(Part only shown)

Table 13.2.1: Minimum requirements for the certification of lifting appliances

Certification process step	Component
2 Verification of materials	Structural materials
Remark: Where materials are not manufactured at an LR approved works check testing will <i>may</i> be required at the discretion of the Surveyor	Winches (main load-bearing and safety-critical components)
	Hydraulic cylinders (main load-bearing and safety-critical components)
	Wire ropes
	Other similar main components not listed in the above

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Published by Lloyd's Register Group Limited
Registered office (Reg. no. 08126909)
71 Fenchurch Street, London, EC3M 4BS
United Kingdom

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